

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

Listing of Claims

1. (Currently Amended) A coding device for coding first information according to second information, comprising:

receiving means for receiving the first information and the second information;

and

coding means for ~~embedding the first information according to the second information into the first information and producing coded data so that decoding the coded data~~ is performed by utilizing an energy distribution possessed by the first information.
2. (Original) A coding device according to claim 1, wherein said coding means codes the first information according to the second information so that decoding is performed by utilizing at least one of the correlation, continuity or similarity of the first information.
3. (Original) A coding device according to claim 1, wherein the first and second information are information of identical or different media.
4. (Original) A coding device according to claim 1, wherein the first information is an image.
5. (Currently Amended) A coding method for coding first information according to

second information, comprising the steps of:

receiving the first information and the second information; and

~~embedding the first information according to the second information into the first~~
~~information and producing coded data so that decoding the coded data is performed by utilizing~~
an energy distribution possessed by the first information.

6. (Currently Amended) A decoding device for decoding coded data obtained by coding first information according to second information, comprising:

receiving means for receiving the coded data, the coded data having the second information embedded into the first information; and

decoding means for decoding the coded data into the first information and the second information by utilizing an energy distribution possessed by the first information.

7. (Original) A decoding device according to claim 6, wherein said decoding means decodes said coded data into the first information and the second information by utilizing at least one of the correlation, continuity, and similarity of the first information.

8. (Original) A decoding device according to claim 6, wherein the first information and the second information are information of identical or different media.

9. (Original) A decoding device according to claim 6, wherein the first information is an image.

10. (Currently Amended) A decoding method for decoding coded data obtained by

coding first information according to second information, comprising the steps of:

receiving the coded data, the coded data having the second information embedded into the first information; and

decoding the coded data into the first and the second information by utilizing an energy distribution possessed by the first information.

11. (Currently Amended) An information processing apparatus including a coding device for coding first information according to second information and for outputting, coded data and a decoding device for decoding the coded data, said information processing apparatus comprising:

coding means for embedding coding the first information according to the second information into the first information and producing coded data and for outputting the coded data so that decoding the coded data is performed by utilizing an energy distribution possessed by the first information; and

decoding means for decoding the coded data into the first information and the second information by utilizing the energy distribution possessed by the first information.

12. (Original) An information processing apparatus according to claim 11, wherein said coding means encodes the first information according to the second information so that decoding is performed by utilizing at least one of the correlation, continuity, and similarity of the first information.

13. (Original) An information processing apparatus according to claim 11, wherein said decoding means decodes coded data into the first information and the second

information by utilizing at least one of the correlation, continuity, and similarity of the first information.

14. (Original) An information processing apparatus according to claim 11, wherein the first information and the second information are information of identical or different media.

15. (Original) An information processing apparatus according to claim 11, wherein the first information is an image.

16. (Currently Amended) An information processing method for an information processing apparatus which comprises a coding device for coding first information according to second information and for outputting coded data, and a decoding device for decoding the coded data, said information processing method comprising the steps of:

embedding coding the first information according to the second information into the first information and producing coded data by said coding device so that decoding the coded data is performed by utilizing an energy distribution possessed by the first information, and outputting the coded data from said coding device; and

decoding the coded data, by said decoding device, into the first information and the second information by utilizing the energy distribution possessed by the first information.

17. (Currently Amended) A storage medium for storing coded data obtained by embedding coding first information according to second information into first information and producing coded data so that decoding the coded data is performed by utilizing an energy

distribution of the first information.

18. (Original) A storage medium according to claim 17, wherein the coded data is obtained by coding the first information according to the second information so that decoding is performed by utilizing at least one of the correlation, continuity, and similarity of the first information.

19. (Original) A storage medium according to claim 17, wherein the first information and the second information are information of identical or different media.

20. (Original) A storage medium according to claim 17, wherein the first information is an image.